

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII 901 NORTH 5TH STREET KANSAS CITY, KANSAS 66101

MAY 1 7 2000

MEMORANDUM

SUBJECT:

Transmittal of Inspection Report - RCRA

FROM:

Betty Berry, Branch Chief

ARCM/ENSV

TO:

Jo Ann Heiman

Branch Manager RESP/ARTD

This memorandum transmits the following inspection report conducted by the Environmental Services Division:

Environmental Services Division.	
Type of Inspection: CEI	Inspection Date: 4/25/00
Inspector: Dave Whiting	
Facility Name: McDonnell Douglas Corporation, Tract 1	Facility I.D. Number: RCRA MOD000818963
Address: McDonnell & Lindbergh Blvd., St. Louis, MO 63042	Activity Number:
Facility Activity: manufactures fighter aircraft	SIC Code: 3721
Multimadia: 1) Was a screening checklist completed? yes	

Multimedia: 1) Was a screening checklist completed? yes

2) Was this inspection part of a Level C/D Multimedia Inspection? no

Other participating programs:

Environmental Justice: Was inspection conducted in a potential EJ Area (per MM screening checklist)? No

Small Business Regulatory Enforcement Fairness Act (SBREFA): Was information provided? Yes

Preliminary Findings (list potential regulatory deficiencies):

NOV/NOPF Issued? no

Potential SNC? no

Comments:

Attachments

RCRA RECORDS CENTER

REPORT OF RCRA COMPLIANCE INSPECTION

At.

McDONNELL DOUGLAS, CORPORATION TRACT 1

McDONNELL & LINDBERGH BLVD. ST. LOUIS, MO 63042 Phone No.: (314)232-3319 EPA I.D. NUMBER: MOD000818963

On

April 25th, 2000

By

U.S. ENVIRONMENTAL PROTECTION AGENCY
REGION VII
Environmental Services Division

INTRODUCTION

6

At the request of the Air, RCRA and Toxics Division (ARTD), a RCRA Subpart CC inspection (CCI) was performed at MDCT1 in St. Louis, MO on April 25th, 2000. The CCI was conducted under the authority of Section 3007 of the Resource Conservation and Recovery Act (RCRA), as amended. The inspection was a Level B Multi-Media Inspection. A Multi-Media Screening checklist is attached to this report (attachment 1). A Missouri notification and waste stream information sheet is also attached to this report (attachment 2). This narrative report and attachments present the results of the CCI.

Participants

McDonnell Douglas Corp. Tract 1 (MDCT1):

Bryan Kury, Manager, Env. & Hazardous Materials Services (EHMS)
Joseph Haake, Group Mgr., Waste Mgmnt. & Env. Compliance, EHMS
Angela Pierce, Group Mgr., Air, EHMS
Stephen Hecht, Env. Scientist, EHMS

U.S. Environmental Protection Agency (EPA): David N. Whiting, Environmental Engineer

Inspection Procedure

Upon arrival at MDCT1, I contacted Mr. Kury and presented him my credentials. I explained the purpose and procedure of the CCI to Mr. Kury and Mr. Haake and discussed the confidentiality of business information with them. At the end of the inspection, an exit

interview was held with Mr. Kury and Mr. Haake. During the exit interview, Mr. Kury acknowledged receipt of the following by his signature: a RCRA Inspection Confidentiality Notice form and a Receipt for Documents (attachments 3-4). No claim of confidentiality was made at the time of the CCI.

Facility Description

MDCT1 manufactures fighter aircraft for the armed services. Unit operations are: metal forming, machining, compositing, painting and assembly. There is also a wastewater treatment plant on-site which discharges treated effluent to the St. Louis Metro Wastewater District.

MDCT1 is located on a site which is about 300 acres in size and is adjacent to Lambert Airfield (attachment 5). There are multiple buildings at the facility, with a total floor space of about 4,000,000 ft²; about 750,000 ft² are owned by the Navy. MDCT1 is located in an area which appears zoned for industrial and commercial use. There are 5,765 employees staffing operations two shifts per day and 5 days per week, with a small staff on third shift.

FINDINGS AND OBSERVATIONS

MDCT1 is a large quantity generator of hazardous waste (LQG), and stores the waste in containers. The operators of the MDCT1 facility received a Permit to store hazardous waste in containers, effective 3/5/97.

Hazardous Wastes Containing Volatile Organic Compounds

Mr. Haake said the hazardous wastes which contain volatile organic compounds (VOCs) are generated from parts cleaning and painting operations. Mr. Haake said the solvents in use are methyl ethyl ketone, methyl propyl ketone and some 1,1,1 trichloroethane.

Mr. Haake said all the hazardous wastes with VOCs are considered to be in light liquid service and have a volatile organic concentration >500ppmv (attachment 10 pg. 19).

Management of Containers

Mr. Haake said liquid hazardous wastes with VOCs are accumulated and stored in DOT approved containers, meeting Level 1, Option 1 requirements. All the 55-gallon containers I observed in the permitted storage area appeared to be DOT approved containers and no detectable emissions above background levels were indicated by measurement with a Foxboro OVA-108 flame ionization detector (OVA).

Mr. Haake said all solvent contaminated wipes and debris are accumulated in $2-yd^3$ containers and then transferred to one of two $40-yd^3$ roll-off containers.

Mr. Haake said the 40-yd³ roll-off containers meet DOT specifications and are managed under Level 2, Option 1 requirements. The roll-off containers have an attached hydraulic compactor. No detectable emissions above background levels were indicated by measurement with the OVA at the two roll-off containers (attachment 10 pg. 25). The operators of MDCT1 performed air monitoring at the roll-off containers in June 1999 (attachment 6).

Mr. Haake said the 2-yd³ containers are managed under Level 2, Option 2 requirements. Mr. Haake said he thinks there are about 12, 2-yd³ containers in use at MDCT1. Air monitoring for VOC emissions was conducted by MDCT1 personnel on some 2-yd³ containers used to accumulated solvent contaminated wipes and debris, in June and July of 1999 (attachment 7). I monitored 10 2-yd³ containers with the OVA during this CCI (attachment 10 pg. 25). Six of the 10 containers which I monitored were not included on the June-July 1999 monitoring conducted by MDCT1 personnel. Mr. Haake said that in April 1998, they had an outside contractor monitor a typical 2-yd³ containing hazardous waste with VOCs (attachment 8). Mr. Haake said the purpose of that monitoring was to show that all the containers could achieve "no detectable emissions" (i.e. <500ppmv). I told Mr. Haake that it may be necessary to document "no detectable emissions" for each 2-yd³ container which will be used.

The lids on the 2-yd³ containers will develop some deformation with use, over time. This is because the lids on these containers will be subjected to uneven loadings and stresses during normal use. Normal use will include the lids being lifted and perhaps being held up at a corner when waste is placed inside the containers. The lids may also be bumped by equipment when the contents of the 2-yd³ containers are dumped into a 40-yd³ roll-off container.

One of the 10 2-yd³ containers I monitored (box #088) had VOC's emissions >500ppmv (attachment 10 pg. 25). I told Mr. Haake and Mr. Kury that an initial attempt to eliminate the leak should occur within 24 hours and that a final remedy should be achieved within five days. Mr. Haake said they would most likely remove the unit from service until repairs can be affected.

Inspections of hazardous waste storage and accumulation areas are conducted by MDCT1 personnel. Mr. Haake said they also do quarterly audits of hand wipe generation areas and he gave me a copy of an audit log (attachment 9).

Summary

No violations were cited. We discussed the need to repair the leaking container. I requested they contact to Edwin Buckner, ARTD/RESP, with a description of the repair efforts. I also discussed with Mr. Haake that it may be necessary to document that each 2-yd³ container being used has been monitored for "no detectable emissions".

David N. Whiting

Environmental Engineer

Date: 5/6/00

Attachments

- 1. Region VII Multi-Media Screening Checklist (1 2-sided page)
- 2. MDNR Notification and Waste Stream Information sheet
- 3. Inspection Confidentiality Notice form
- 4. Receipt for Documents
- 5. Facility diagram
- 6. Roll-off container monitoring, 6/99
- 7. 2-yd³ container monitoring, 6-7/99 (3 pages)
- 8. Contractor monitoring of a typical 2-yd3 container (2 pages)
- 9. Hand wipe audit log, typical (2 pages)
- 10. Inspection data gathering sheets (27 pages)

orward To: EJ□ TSCA/EPCRA Ø CWA□ Wetlands□ UIC□ PWS□ CAA□ CFC□ RCRA□ UST Ø SPCC□
REGION VII MULTIMEDIA SCREENING CHECKLIST
acility Mc Downel Douglas Corp. T.1 Facility Ownership private & part Navy Inspector David Whiting
street Mc Donnel & Lin & bergh Blud. Facility Contact Joseph Haake Primary Media RCRA
City St. Louis 740 Phone (314) 232-3319 SIC code 3721 Inspector Phone Ext. (319) 338-6959
State MO Zip 63042 Number of Employees 5,765 Work Hours/Shifts 23/3 Date 4/25/00
. What does the facility do? Manufacture fighter aircraft
2. Provide a brief process description: metal forming, machining, compositing, painting, assembly
(Check all that apply): Painting/Coating (Water-based ☑, Solvent-based ☑); Printing □; Reacting □; Formulating □; Distilling □;
Parts Washers/Degreasing (Water-based ☑, Halogenated-based 位, Non-halogenated-based □); Combustion (boiler, furnaces, oxidizers) □;
Electroplating (Chrome 🗹, Other 🗸 👆); Electro-less plating(Type)
ENVIRONMENTAL JUSTICE (EJ - Note: Only forward to EJ if a concern is also identified in one of the regulatory areas below)
1. Is the facility, located in a low income area (e.g., with many abandoned and dilapidated properties)? No @ (stop) Yes
is the facility located less then 1000 feet from the nearest routinely occupied property (house, school, etc.)? No Yes - Forward to EJ
TOXIC SUBSTANCES CONTROL ACT (TSCA) EMERGENCY PLANNING & COMMUNITY RIGHT TO KNOW ACT (EPCRA)
1. Does the facility use more than 200 gallens or 1,500 pounds per month of the following (check all that apply): Acids ☑, Anhydrous Ammonia □,
Chlorine □, Chlorinated Solvents 世, Solvent-Based Paints 世, or Solvents ☑? No □ (stop) Yes □ (Available on Envirofacts)
■ Have Toxic Chemical Release Forms (Form R) been submitted under Section 313 of EPCRA? Yes A No → Forward to TSCA
2. Does the facility store more than 100 gallons or 1,000 pounds of the following (check all that apply): Acids 🗷, Bases 🖆, Bulk Chemicals 🗷,
Anhydrous Ammonia Chlorine . Chlorinated Solvents . Puels . Gases . Solvent-Based Paints . or Solvents . No . (stop) Yes . Way would form . (ho chlor solvents fear . Through once . Have Hazardous Chemical Inventory Forms (Tier II) been submitted to local and state governments (Emergency Planning Committees or
(Available on Envirofacts)
State Emergency Response Commission)? Yes P No L Forward to EPCRA Bryan Kury and they are the control of the CAA? Yes P No P Forward to EPCRA Was all they are the control of the CAA? Yes P No P Forward to EPCRA
3. Does the facility have any equipment that contains PCB's at concentrations >500 ppm? No 🗹 (stop) Yes 🗆
■ Do you see any visibly leaking equipment(including wet or weeping equipment)? No □ Yes □ → Forward to TSCA (Get Photo)
CLEAN WATER ACT (CWA) - National Pollution Discharge Elimination System (NPDES), Industrial Pretreatment
1. Does the facility discharge any water to storm sewers, surface water, or the land? No □ (stop) Yes Ø
Are <u>all</u> of the water discharges permitted? Yes ☑ No □ → Forward to CWA
2. Does the facility discharge process wastewater to the city POTW (Publically Owned Treatment Works)? No □ (stop) Yes the four on-size the
■ Are the discharges permitted by: The state? (Stop here) The city? No □ → Forward to CWA;
■ Does the city have a state or EPA approved pretreatment program? Yes 🖾 No or Don't Know 🗆 → Forward to CWA
3. Do you see any wastewater discharges not identified by the facility? No ☑ (stop) Yes □ Location:
Appearance of discharge:(Get Photo) → Forward to CWA
CLEAN WATER ACT (CWA) - Section 404 Wetlands
1. Does the facility have any wetland areas (e.g. streams, ponds, or temporarily wet areas)? No ₺ (stop) Yes □
Do you see any areas that have been filled, dredged, channelized, dammed, or had gravel removed from within the last 5 years?
No Ø Yes □ → FWD to Wetlands When? Location: (Get Photo)
SAFE DRINKING WATER ACT (SDWA) - Underground Injection Control (UIC) & Public Water System (PWS)
1. Does the facility discharge any liquids to the subsurface (septic systems, disposal wells, cesspools, etc.)? No ☑ (stop) Yes ☐→ Forward to UIC
□ Do these liquid wastes consist of <u>sanitary wastewater only</u> ? Yes □ No □ → Forward to UIC
2. Does the facility provide drinking water to 25 people or more from its own source (private well, river, pond)? No ☑ Yes ☐ → Forward to PWS
□ Does the facility test or monitor its drinking water in order to comply with state regulations? Yes □ No □

Notification And Waste Stream Information

Epa ID MOD000818963 **Missouri ID** 001001

Facility Status Large Quantity

Date EPA Id Issued 06/30/1980

Company Name

MCDONNELL DOUGLAS CORP TRACT 1

Facility Address

MCDONNELL & LINDBERGH BLVD

HAZELWOOD, MO 63042

County ST LOUIS COUNTY

Latitude Decimal Format

38.788500 Longitude Decimal Format

-90.3829

Method Of Collection

Zip Code Centroid 5221-1400

Collection Site

Mailing Address PO BOX 516 MAIL CODE S111-1099

ST LOUIS, MO 63166

Contact Person/Position JOSEPH HAAKE

Phone Number (314) 232-3319

Facility Owner MCDONNELL DOUGLAS CORP

Facility's Owner Address

Owner's Phone Number

Owner Type Private

Property Owner's Name

Propety Owner's Address

Property Owner's Phone Number

Property Owner Type Private

SIC Code

3721

✓ TSD Facility TSD Identification Number:

Generator/Facility Information is Confidential

RCRA Identification Number: RR268A

Registered EPA Hazadous Waste Numbers

D000	D001	D002	D003
D004	D005	D006	D007
D008	D009	D010	D011
D018	D027	D035	D039
D040	D098	F001	F002
F003	F005	F006	F007
F008	F019	P030	P098
U134	U151	U162	U210
U223	U382		

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY CONFIDENTIALITY NOTICE

Me Jonne 11 Douglas Corp. Tract I
Mc Donnel & Lin Oberch Blv D. Hazelwood MO 63042
Inspector (print)
Davie M. Whiting
U.S. EPA, Region VII, 901 N. 5th St., Kansas City, KS 66101 Date 4/25/00
The United States Environmental Protection Agency (EPA) is obligated, under the Freedom of Information Act, to release information collected during inspections to persons who submit requests for that information. The Freedom of Information Act does, however, have provisions that allow EPA to withhold certain confidential business information from public disclosure. To claim protection for information gathered during this inspection you must request that the information be held CONFIDENTIAL and substantiate your claim in writing by demonstrating that the information meets the requirements in 40 CFR 2, Subpart B. The following criteria in Subpart B must be met: 1. Your company has taken measures to protect the confidentiality of the information, and it intends to continue
to take such measures.
2. No statute specifically requires disclosure of the information.
3. Disclosure of the information would cause substantial harm to your company's competitive position.
Information that you claim confidential will be held as such pending a determination of applicability by EPA.
I have received this Notice and <u>DO NOT</u> want to make a claim of confidentiality at this time.
Facility Representative Provided Notice (print) Signature/Date
BRYAM E. Kung BR E. King 4/25/00
I have received this Notice and <u>DO</u> want to make a claim of confidentiality.
Facility Representative Provided Notice (print) Signature/Date
Information for which confidential treatment is requested;

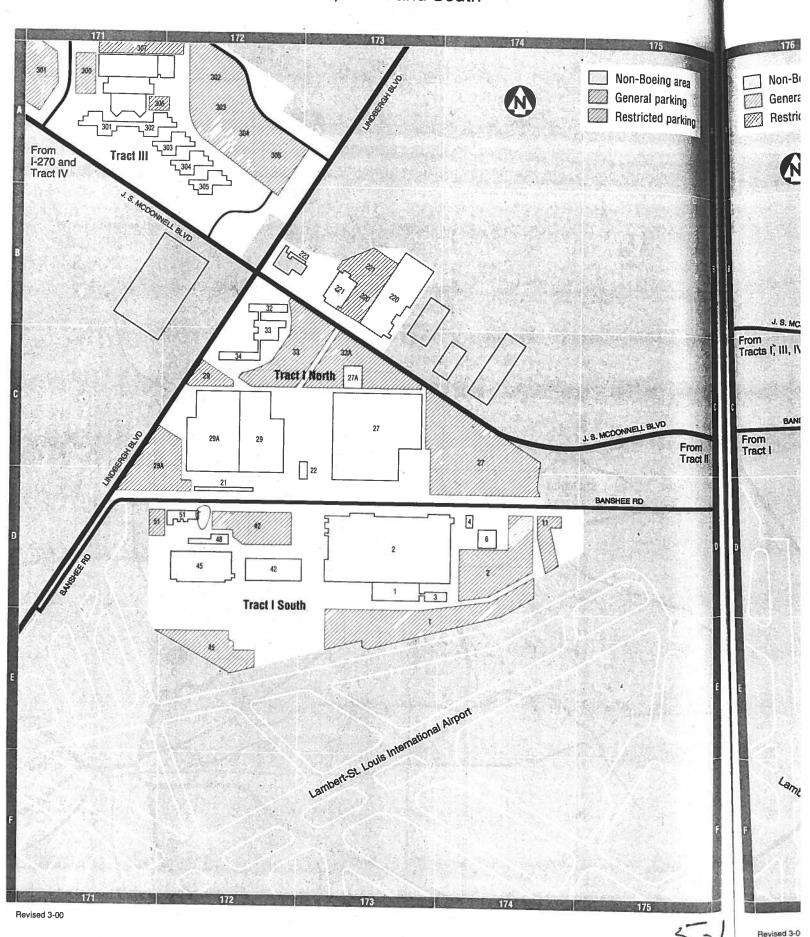
(Rev: 11/15/99)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY RECEIPT FOR DOCUMENTS AND SAMPLES

McDonnell Doudes Corp. Tract I
McDonnel & Lin Obergh BlvO. Hazelwood MO 63042
Documents Collected? YES(list below) NO
Samples Collected? YES (list below) NO Split Samples: YES NO
Documents/Samples were: 1) Received no charge / 2) Borrowed 3) Purchased
Amount Paid: \$ Method: Cash Voucher To Be Billed
The documents and samples described below were collected in connection with the administration and enforcement of the applicable statute under which the information is obtained.
Receipt for the document(s) and/or sample(s) described below is hereby acknowledged:
1) Facate diag com
(otto cotion of vodeteclable emission for 4 conteners
3) Dimitton Chiny thin, 617/99, (3piges)
1) Casticina Vocamission 4/5/98 une box (2, ags)
5) Obreaut = audit 3/13/60 Zooles)
Facility Representative (print) Signature/Date
BRYAN E. KURY DR. E. Ky 4/25/00
Inspector (print) Signature/Date One of the street of th
U.S.EPA, Region VII, ENSV Division, 25 Funston Road, Kansas City, KS 66115
(rev:1/20/93)

Missouri - St. Louis

Tract I, North and South



Certification of no detectable emissions

On June 23, 1999, VOC air emission testing of the hazardous solid waste container/compactor units, located at Buildings 27, 51, 101, and 598, was conducted to document compliance with subpart CC requirements for level 2 containers. The testing was performed by Elmer Dwyer and Joe Haake of the Boeing-St. Louis Environmental and Hazardous Materials Services Department.

A direct reading PE Photo Vac Model 2020 Photoionizing Detector (PID), calibrated using 100 ppm isobutylene, was utilized to detect total VOCs. The sampling was conducted in accordance with procedures specified in Method 21 of 40 CFR part 60, appendix A.

Samples were taken along the edge of the gasket where the compactor ram enters the waste storage container and along the sides of the container where it attaches to the compactor unit. The results are as follows:

Building 27 compactor

Ram gasket	0.7 ppm
South side	0.0 ppm
North side	39.0 ppm

Building 51 compactor

Ram gasket	52.0 ppm
West side	0.0 ppm
East side	25.0 ppm

Building 101

Ram gasket	0.0 ppm
South side	0.0 ppm
North side	0.0 npm

Building 598

Ram gasket	0.0 ppm
South side	0.0 ppm
North side	0.0 ppm

The results indicated that the emission levels are below 500 ppm specified in 40 CFR 265.1084(d)(8).

Ome Duryer Joe Haake

ANNUAL DUMPSTER INSPECTION

40 CFR 264 subpart CC

DUMPSTER #	TEST DATE	RESULTS (PPM)	NOTES	SIGNATURE
1	6-23-99	19.2		>ol Haake
2				
3	7-14-99	510	LIDS BENT. PULLED OUT OF SERVICE 7-14-99	Jacke Hacke
4				0
5				
6				
7				
8				
9				
10	72 11/ 000	33	/ 100 9 7 0 10 10 10 10 10 10 10 10 10 10 10 10 1	Vas 4-1/2
11 12	7-14-99	3.3	LIOS BENT UP ON SIDES	To peak
13	7-15-99		OUT OF SERVICE	Sol Hanks
14	//5///		OU. OF SERVICE	0
15	6-23-99	64		Jel Houke
16	6-23-99	102		See Haake
17				0
18				
19	7-14-99	12		
20	7-14-99	149	HIGH LEARL AT RIGHT LID CRITSIDE	Habe
21				
22	7-14-99	72		tocke
23				
24 25				
26				
27				
28	•			. 0
29	7-14-99	184		De Hante
30		7.0		U
31				, ,
32	7-14-99	159	OUT SIDE OF RIGHT LID	Loe Hadke
33				
34	6-23-99	34		> take
35	7-15-99		OUT OF SERVICE	Horalie
36	<u> </u>			

ANNUAL DUMPSTER INSPECTION

40 CFR 264 subpart CC

DUMPSTER #	TEST DATE	RESULTS (PPM)	NOTES ZLIBO OUT OF SARVICE 7/14	SIGNATURE
37	7-14-99	692	HIGH LEVEL AT FRONT BETWEEN LIDS, ALSO 675, 516 AT P.LIO OUTSIDE.	Sol Harake
38				
39				
40				
41				
42				
43				
44				
45				
46				
47	7-15-99		OUT OF SERVICE	Se Hooks
48	7-15-99		OUT OF SERVICE	Soe Hoale
49				0 ',
50	7-14-99	189	HIGH LEVEL AT OUBDE CORNER OF RIGHT LID	Ac Haabe
51				0.
52	7-14-99	296	this LEVEL BATWERN LIDS AT BACK	Joe Hacko
53	7-4-99	56		Jac Harbo
54		5		
55				
56	7-14-99	0		Xe Feath
57	2			
58	7-14-99	114	METAL PIBLE BETWEEN LUDS BENT	OR Haroly
59				3
60				
61 62	7 4/-00	12 ~	//	\
63	7-14-99	135	HIGH LEWEL DETLEEN LIDS AT FRONT!	or / vacue
64	6-23-99	480	16 216 25 400 227 222 176 2750 750 750 750	1-0 H- Bo
65	6 23 77	7'50	LEVELS OF 480, 223, AND 176 AT FRONT OF LEFT LID.	S. / yaare
66	-			
67	7-14-99	O		ye Haale
68	1 1 1 1 1 1			O Pare C
69				
70	7-14-99	160	HIGH LEVEL AT SIDE OF LEFT LID	Se Heale
71			PINTI VINITO IT OF OFFICE OF OTTO	O November 1
72	7-14-99	118		Soe Hanks
	1 , , , , ,	1 0		Jan T

ANNUAL DUMPSTER INSPECTION

40 CFR 264 subpart CC

DUMPSTER #	TEST DATE	RESULTS (PPM)	NOTES	SIGNATURE
73				
74				, 0
75	7-15-99		OUT OF SERVICE	Joe Haake
76				
77	7-15-99		OUT OF SERVICE	Lot Hoole
78	7-14-99	7/000	HEAH LEVEL BETWEEN LIDS AT FRONT, PULLED OUT OF SERVICE 7-14-99	It Hashe
79	7-15-99		OUT OF SERVICE	Se Haabe
80				0 '
81				
82	7-14-99		OUT OF SERVICE	Locate House
83				3
84	7-15-99		OUT OF SERVICE	Joe Hapke
85	7-14-99	47		Hacke
86				
87				
88	7-15-99		OUT OF SERVICE	Joe Hoale
89				
90	7-15-99		OUT OP SERVICE	Joe Hoghe,
9/	7-15-99		OUT OF SERVICE	to forge
92	7-15-99		OUT OF SERVICE	de Hacke
				12
				-
				
		<u> </u>		



www.environmentalcare.com

HEADQUARTERS: ST. LOUIS, MISSOURI

OFFICES IN: TAMPA, FLORIDA WICHITA, KANSAS DAVENPORT, IOWA

April 30, 1998

Elmer Dwyer Senior Specialist Environmental & Hazardous Materials Services The Boeing Company P.O. Box 516 MS S111-1099 St. Louis, Missouri 63166

J. H. said this is a Tract II container.

RE:

Determination of Volatile Organic Compound (VOC) Air Emission From Hazardous Waste Container

Dear Elmer:

Thank you for allowing Wellington Environmental the opportunity to perform the VOC air emission testing of the hazardous waste container. This report is based upon air sampling and visual observations.

The following contains a summary of the air sampling performed on April 30, 1998 at the above referenced location.

A calibrated direct reading Thermo Environmental OVM (Organic Vapor Meter) Model 580 Photoionizing Detector (PID) was utilized to detect total VOCs. The sampling was conducted following the procedures specified in Method 21 of 40 CFR part 60, appendix A.

Results of the air sampling indicated an ambient background level of approximately 1 part per million (ppm) within 1 meter of the container. The sample was collected upwind of the container. Results of the sampling collected around the perimeter of the cover indicated a range of 1 - 248 ppm (see attached drawing indicating sampling results and locations). The two (2) highest readings were observed at the corners of the container. These readings indicate that the difference between the background concentration (1 ppm) and the maximum concentration (248 ppm) are below 500 ppm specified in 40 CFR section 265.1084(d)(8).

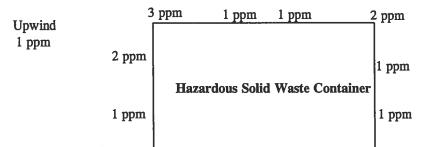
Please call if you have any questions concerning the enclosed information at (314) 644-4930.

Sincerely,

WELLINGTON ENVIRONMENTAL

Director, Industrial Hygiene Services





12 ppm

224 ppm

248 ppm

Not to Scale

ANESHAP HANDWIPE OBSERVAT	TON AUDIT			QUARTERLY
AUDITOR	AND AND PARTITIONS OF THE PARTY		AY Perces	Attoral
DATE	3-13-00	3-13-00	3-13-00	3-13-00
	monade of the control	and Vield in a second control of the second		
:4	AND A STATE OF THE		Make the second	The Laboratory of the Control of the
5				
BUILDING	29A	29A	19A	29A
7 LOCATION	12A	L10	1/16	
ARE OPERATORS USING COMPLIANT SOLVENT FOR HANDWIPE CLEANING OPERATIONS? (e.g. DS 108, DESOCLEAN 45, ISOPROPYL ALCOHOL, MPK, MP 1793, PF DEGREASER, SHOPMASTER RC)	YES NO	YES NO	YES NO	VES NO
ARE EXEMPT HANDWIPE CLEANING OPERATIONS USING THE EXEMPT SOLVENTS FOR THE EXEMPTED OPERATIONS ONLY? (IF NO EXEMPT OPERATIONS ARE PERFORMED IN THE AREA INDICATE NA)	YES NO	YES NO	YES NO	YES NO
ARE HANDWIPE CLEANING RAGS BEING DEPOSITED INTO APPROPRIATE CLOSED CONTAINERS (e.g., RED HAZARDOUS WASTE CANS) AFTER EACH HANDWIPE CLEANING OPERATION?	YES NO	YES NO	YÉS NO	NA NO
ARE LIDS TO RED HAZARDOUS WASTE CONTAINERS BEING KEPT CLOSED?	YES NO	YES NO	YES NO	YES NO
IF FLUSH CLEANING IS PERFORMED ON AEROSPACE PARTS, ASSEMBLIES OR COMPONENTS, IS THE CLEANING SOLVENT COLLECTED INTO AN ENCLOSED CONTAINER OR COLLECTION SYSTEM THAT IS KEPT CLOSED WHEN NOT IN USE, OR INTO A SYSTEM WITH EQUIVALENT EMISSION CONTROL?	YES NO	YES NO	YES NO	YES NO
13 Bidg 29 audited the bldg via walk though. Did not observe any non-compliant activities	YES NO	YES NO	YES NO	YES NO
.14	YES NO	YES NO	YES NO	YES NO
15	YES NO	YES NO	YES NO	YES NO
EIQ NO				
UNIT NO	- COLUMN TAR THROWATER	CONTRACT CONTRACT	NEW COLUMN	
NOTES/CORRECTIVE ACTIONS (INCLUDE TIME AND DATE CORRECTIVE ACTIONS ARE	PIIT NOTES	S AND CORRECTIVE ACTIO	NS ON THE BACK OF THE A	UDIT SHEET.
NOTES/CORRECTIVE ACTIONS (INCLUDE TIME AND DATE CORRECTIVE ACTIONS ALL	The second secon		4	
	DESCRIPTION DESCRIPTION OF THE PROPERTY OF THE		to the second se	
NOTE IF AN AWARD OR NOTICE WAS GIVEN		OUESTIONS EVEL ANATIO	NS TO THE NO. ALONG W	TH SUPERVISOR AND

FOR ITEMS 1-7 LOG THE REQUESTED INFORMATION, FOR ITEMS 8-15 CIRCLE YES OR NO TO THE LISTED QUESTIONS. EXPLANATIONS TO THE NOS ALONG WITH SUPERVISOR AND DEPARTMENT SHOULD BE PROVIDED UNDER THE NOTES/CORRECTIVE ACTIONS WHICH SHOULD BE PUT ON THE BACK OF THE SHEET.

SHIAP HANDWIPE OBSERVAT				OUARTERIA
AUDITOR	Yvonne Pierce	Yvome Pierce	The first of the second	
DATE	3-13-00	3-13-00	PRICES MATTER TO THE PRICES OF	C LINELLA MATTER. TO BE FOR TO CREATE HER ST MANUFACTURE WE ARE
The same and a success of the same and the s	The second secon	C. L. C. C. Philipped of C. C. C. C. L. C.	The extraction corner where we consider a final extraction of the property of the constant and the constant	The same of the sa
	Commence of the distance of the control of the cont	The state of the s	and have all the state from the answer of the department and handware the state of the state of the state of the	THE COLUMN TO SECURE A SECURE ASSESSMENT OF A SECURIOR SECURITY OF A SEC
6 BUILDING	27	2-7	and we a highest first the decision in the second and the second and the second second as the second	AND THE THE REAL TO THE SECOND
LOCATION	Pant Shap	234	and the second section is a first position with the second and the second section of the second second second	THE ME A THE STATE IN COLUMN STATE STATE CONTINUES OF THE PARTY STATE
ARE OPERATORS USING COMPLIANT SOLVENT FOR HANDWIPE CLEANING OPERATIONS? (e.g. DS 108, DESOCLEAN 45, ISOPROPYL ALCOHOL, MPK, MP 1793, PF DEGREASER, SHOPMASTER RC)	YES NO	YES NO	YES NO NA	YES NO
G ARE EXEMPT HANDWIPE CLEANING OPERATIONS USING THE EXEMPT SOLVENTS FOR THE EXEMPTED OPERATIONS ONLY? (IF NO EXEMPT OPERATIONS ARE PERFORMED IN THE AREA INDICATE NA)	YES NO	YES NO	YES NO	YES NO
ARE HANDWIPE CLEANING RAGS BEING DEPOSITED INTO APPROPRIATE CLOSED CONTAINERS (e.g., RED HAZARDOUS WASTE CANS) AFTER EACH HANDWIPE CLEANING OPERATION?	YES NO	YES NO	YES NO	YES NO
ARE LIDS TO RED HAZARDOUS WASTE CONTAINERS BEING KEPT CLOSED?	YES NO NA	YES NO	YES NO	YES NO
IF FLUSH CLEANING IS PERFORMED ON AEROSPACE PARTS, ASSEMBLIES OR COMPONENTS, IS THE CLEANING SOLVENT COLLECTED INTO AN ENCLOSED CONTAINER OR COLLECTION SYSTEM THAT IS KEPT CLOSED WHEN NOT IN USE, OR INTO A SYSTEM WITH EQUIVALENT EMISSION CONTROL?	YES NO	YES NO	YES NO	YES NO
Walked through the rest of Bldg 2, -no compliance issues. Visible.	YES NO NA	YES NO	YES NO NA	YES NO
	YES NO NA	YES NO NA	YES NO	YES NO NA
	YES NO NA	YES NO NA	YES NO	YES NO
EIQ NO				a fall england that that the page of the fall and the fall englands and the fall of the same times and the fall
UNIT NO	Training surplies and subject same.	AND THE SECOND COME CONTRACT SERVICES	The state of the s	Allega in the statement of the statement
NOTES/CORRECTIVE ACTIONS (INCLUDE TIME AND DATE CORRECTIVE ACTIONS ARE SIGNITURE/DATE	PUT NOTES A	AND CORRECTIVE ACTIONS	ON THE BACK OF THE AU	DIT SHEET.
NOTE IF AN AWARD OR NOTICE WAS GIVEN	and and the second state of the second secon	The second section will be considered to the second second section of the second section of the second section	ANY ROLLING THE ROLLING THE PROPERTY OF THE PR	
RITEM 127 LOG THE REQUESTED INFORMATION FOR ITEMS 845 CIRCLEY	ES OR NO TO THE LISTED G	Puestions. Explanation	S TO THE NOS ALONG WITH	SUPERVISOR AND
RITEM 1-7; LOG THE REQUESTED INFORMATION; FOR ITEMS (8-15 C)RCLEY NT. SHOULD, BE PROVIDED UNDER THE NOTES/GORRECTIVE ACTION	ES OR NO TO THE LISTED ONS WHICH SHOULD BE PUT!!	DUESTIONS, EXPLANATION ON THE BACK OF THE SHEE	S TO THE NOS ALONG WITH	SUPERVISOR AND

ACTIVI	ty	# :	 59
		-	

DATA GATHERING WORKSHEET AND CHECKLIST INSTRUCTIONS AND KEY

- 1. Complete all items on the applicable data gathering worksheet and checklist in a neat and legible fashion.
- a. Additional time spent legibly completing the forms in the field will reduce the need to rewrite the forms or explain the forms in the inspection report.
- 2. All responses will be based on the inspector's knowledge and best judgement at the time of the inspection.
- 3. A (\checkmark) mark should be used to mark the all boxes (\Box) and will indicate the choice made or the action completed.
- 4. The Records Review Worksheet and Checklists and the Visual Review Worksheet and Checklists each have a key below the tables. Use this key when filling out these forms.
- a. Items which are shaded gray on the worksheets and checklists are considered high priority items during inspections and should always be completed.
- b. On the top of the worksheets and checklists are a group of boxes which represent the generator status of the facility and whether or not the facility is subject to interim status or permit requirements. The appropriate box should be checked.
- 5. Several of the forms contain the following box at the bottom of the page:

DOCUMENTATION: HOW are the facts known? WHO said what? WHEE did it happen? and WHAT PROOF WAS OBTAINED?

The inspector should pay special attention to the questions contained in this box and make sure that they are able to answer them as relates to inspection documentation.

- 6. Each of the forms has a form number in the bottom left corner of the form and each item on the form is numbered and/or lettered. The form and item number/letters should be used when referencing information contained on the form in the inspection report.
- 7. Each of the forms has a space in the upper left hand corner of the form to track the information by activity number. Place the inspection activity number in the space provided.
- 8. Each of the forms has a space in the upper right hand corner of the form to track the total number of pages used during the inspection. Count all forms used and complete this space.
- 9. The rest of the information on the forms is self-explanatory.

Attachment 10

Activity #:	Page of
PRE-INSPECTION WORKS GENERAL INFORMATION	HEER
1. Facility Name: McDonnel Douglas Corp Trust 1	2. Inspection Date: 4/25/00
3. Facility Address: McDonnel & Lindbergh Blvd.	4. EPR T.D. #: MADAWAGAGA
St. Louis, MO 63042	5. State I.D. #:
6. Location Information:	
	· · · · · · · · · · · · · · · · · · ·
7. Facility Contact: Joseph Hacke	Phone #: (314) 232 - 3319
8. Inspector Name/Title: David Whiting	Phone #: (314) 333 - 6959
9. Inspection Type: O SQG O LQG O TSD B Other RLRA Air regs , CCI	
TOTAL WEST , CC I	
TRAVET. INFORMATION	
Dates of Travel: 4/24-26/45	GOV □ POV
<u>Date</u> Hotel	Phone ≠ Rate
	()
	()
	()
Additional inspection conducted during this trip? [YES ENO
Where:	
Compensatory time requested? YES NO f of he	Dates:
Overnight vehicle requested?	
Car signed out?	f:
NOTE: Provide a copy of this page for the secretary a	and mark the copy \rightarrow \square Secretaries Copy
	//////////////////////////////////////
CONTACTS	
10. Compliance Officer/Phone # : Edwin Buck	(ner (913) 551-7621
11. State Contact/Phone #/ [] N/A :	
Location	
12. Permit Writer/Phone # N/A :	
13. Attorney/Phone #	
14. Other Contacts/Phone # N/A :	•
PIW-1 of 4	10-2

out wer first - whitemery T-T	59 GI	107
Agtivity #:	Page c	£
KEY INFORMATION FROM FILE REVIEW		
15. Date of last inspection: Supt 96	D Not previously inspe	cted
16. Key information from last inspection: (operations, waste streams/codes, waste management pro		
participation of the second se	ocesses, e.c.,	
17. Compliance/Administrative issues from last inspect	tion:	
		<u> </u>
18. Most recent notification copied: ZYES NO		
19. Key Interim Status information: N/A (container/tank storage limits, etc.)	Key Permit Information:	N/A
20. OTHER RECORDS/COMPLIANCE INFORMATION		
		康
21. Copies of facility map or diagram made? ZYES	□ NO □ N/A	
22. Additional Notes:		
··		

OF DISCUSSIONS WIT	TE COMPLIANCE OFFICER AND SPECIF	C INSTRUCTIONS
EB soul to word	wet a routine CCI	
_		
		•
	*	
,		
		0
	19	
		T T

10-4

Activity #:			91 OL 1
			Pageof_
	PRE-INSPECTION ITEMS TO	ल्यान् (स्	¥(
General Equipment: Special Equ	- hardhat - safety glasses - other camera - calculator - dictaphone - post-its - coveralls - film - pH paper	- rubber boots - tape measure - notebook - compass - tape recorder - safety gloves - safety boots - ice chest - batteries	- safety shoes - SLR camera - flashlight - binoculars - pens/markers - winter gloves - ear plugs - coat - respirator
Paperwork:	- facility files - NOV forms - Pollution Prevention - Data Collection Work - Reference Information	rate - Mult	forms fication forms i-Media forms , Water, SPCC, Title III) lations (Federal/State)
- Load Camer	ra		, , , , , , , , , , , , , , , , , , , ,
- Credential	ls		
- Business (Cards		
- Daily Plan	ner		
	Keys/Credit Card		
	ealth or Safety Considers	tione?	
	one Message/Setting	.c.come r	
- Sign-out C			
Notes:			
		9	
			T A
		12.0	
		10	
		10	

	DRIVE-BY WORKSHEET	
. Arrival time: 900 cm		1
. Drive-by conducted from p	oublic right-of-way? Fyes	mudars posible
	"North" with respect to the f	
of the layout and orients	ation (as can be viewed from	the public right-of-
. Obvious concerns visible (Note area(s) of co	from public right-of-way?	TYES D'NO
Containers	□ Tanks	☐ Processing Equipment
□ Loading Areas	□ Unloading Areas	C Security Devices
Open Drums	☐ Stressed Vegetation	□ Unusual Staining
☐ Unusual Odors	Obvious Discharges	☐ Improper Disposal
☐ Safety Concerns	Other Concerns	•
. Notes/Observations:	P	
		
•	8	
	2.	
5. Photo's Taken?	D NO Photo Numbers	: n/direction on sketch)

11 11-22	-	€3 or 13
Activity #:		Page of
SITE ENT	RY AND INBRIEFING WORKSHE	
1. Initial entry procedures:		
Used main entrance	D Entered during no	ormal operating hours
2. Facility Representative(s): Bry	in Kurke	Titld: Env. o Saz Mat. Services
Stephen Hecht Fine. Scientist Ang.	ela Pierte	Title: Group Mar (Arr) BHMS Title: Group May regar EHMS
3. Does the facility representative generation and management practi (How was this verified?)	(S) have intimate knowledge	ge of all aspects of the wast
4. How long has facility representa-	V .	
5. Were unreasonable or excessive de		
6. Introduction: ### Presented credentials ### Verified presence at correct ### Explained authority to conductions #### Introduction:		

Explained documentation process through the use of worksheets, checklists,

Explained facility's right to claim CBI and provided pages 1 and 2

current knowledge of RCRA and that the final findings may differ

Z Explained EPA's need to collect and the facilities responsibility to provide accurate information and provided copies of Section 1001 and 1002 U.S.C. to

EYES By who? (name): Bruan Num

Obtain name of person denying access, time of denial, reason for denial, or

DOCUMENTATION:

□ NO

facility

7. Was full access granted?

HOW are the facts known? HOW long did it happen?

note limitations placed on access:

Explained the purpose, scope, and order of the inspection

Explained that findings and observations are based on your

photo's, notes, statements, etc.

of CBI form for Signatures prom

D Identified personal safety considerations:

VEO "said what?" WHEN did it happen? and WHAT PROOF WAS OBTAINED?"

Activity	#:	
----------	----	--

Page	of
- 3	

FACILITY BACKGROUND WORKSHEET

1. Site history:	
Date facility began operating:	1945 Number of employees: =5,765
	skel, 3rd Number of days worked per week: 5.4pm
Size (sq. ft., how divided): total	le At 3,997,326: 3,244369 and by Being
748,716 ownelley Navy = 3.5x4	(1,000 fr) total fiz property
Property owner and facility operat	
MD is a wholly rund subsidiary of Boeing. No	Wy owns part of property all operations one MD
2. Major products or services provided:	
painting (booths)	
· · · · · · · · · · · · · · · · · · ·	
3. Major raw materials used: Solvent ire	Lare; methyl ethyl Ketone, methyl gropyl kotone &
Some 1,1,1 trubbroathone	
4. Major manufacturing or processing ope	erations which generate waste streams:
(provide brief description) w/rem	pect to hay west containing voc s:
<u>Operation</u> (Waste Stream(s)
Onenting.	leaving rolvert/wasteguint
0.0	ment one
	ment litters
goods clearing	nenturpes
compositions	nent upes
5. Complete a Generator Waste Stream Wo the waste streams noted above and th	rksheet and/or Off-Site Waste Stream Worksheet for

Activity #: of
5. Verified/compared above information with facility Notification Porm: Dis I No J. Haake said the waste wees look west
I wake saw the warse wees look week
//////////////////////////////////////
Is facility's status solidly within above category? (If not carefully verify status and document)
8. TSD STATUS: ☐ Treatment ☐ Storage ☐ Disposal
Note: Types of units, number of units, capacities, processes, etc.
9. Resolved questions from Pre-Inspection Worksheet? YES NO No Questions
10. Resolved compliance officers questions from Pre-Inspection Worksheet?
11. Requested site map or diagram to identify all observations? DYES D None available
DOCUMENTATION: BOW are the facts known? WHO said what? WHEN did it happen? and WHAT PROOF WAS OBTAINED?

	SOP No. 1321.13 - Appendix 1-1		6 0 cf 10 :
	yestated &:		Page of
	B. K. said no hay west treatmen B. K. said no hay west tonks on	nt .	
		/	
	3. Hanke said 2-yds containers one	used to accumulate solver	+ contarinatal
	40-yd= rollells have on attached	hydraulie compactors. I	1/ continuero Bost
	hydraulic compartors have go	sheted rem.	The state of the s
	B.K. said biquil hay not us Voe	is a store Din Drums - meeting	DOT spers.
		TI T	
		۵٬	
•			
•			
٠	S e v		
			nj •
-			
•			
		i.	-

Activity #: ____ Pacility Status: G SQG G LQG Z I.S./P

Page 80 of 10. Page___ of__

VISUAL REVIEW WORKSHEET AND CHECKLIST

A. CONTAINER STORAGE AREA

(Complete one form per storage area)

1. Name and location of area: permitte

Person responsible for area:

3. Type of storage area: □ < 90 day □ < 180 day

□ < 270 day

□ I.S.

4.	I.S.	capacity:	Permited capacity:
	//x	REGULATORY REQUIREMENTS*	COMENTS
5.	/	Date of accumulation marked-262.34(a)(2)	
6.	/	Containers merked as "Mazardous Waste".	
7.	V	"Containers in good condition-262.34-265.171	
8.	/	Containers are competible with waste-	
9.	/	Containers kept closed-262.34-265.173(a)	
10.	1	Containers opened, handled, & stored in a manner not to cause them to leak- 262.34-265.173(a)	
11.	1	Containers storing incompatible separated or protected form each other-262.34-265.177	
12.	1	Containers stored >50 feet from property line [LOG's, I.S. & Permit, only]-262.34-265.176	
13.	1	Adequate aisle space for type of container management and emergency equipment used-265.35	
14.	1	Containers stored for less than 90/180/270 days, as applicable-262.34	
15.	V	Facility inspected weekly-265.174	
		ADDITIONAL I.S. REQUIREMENTS*	
16.	1	Security: controlled entry, 24-hr. surveillance, or barrier-265.14(b)	
17.	V	"Oanger Unauthorized Personnel Keep Out," signs posted-265.14(c)	
18.		"No Smoking" signs conspicuously posted- 265.17(a)	
19.	V	Containers/Tanks clearly marked identifying their contents & with storage start data-268.50(a)(2)	
20.	V	LDR westes not stored over 1 yr. without adequate justification-268.50(c)	
21.		Daily inspections loading.unloading areas (when in use)-265.15(a)(4)	
	- specie data	PRE-TRANSPORT REQUIREMENTS*	a
22.		Waste packaged, labeled, marked, per DOT- 262.30, 262.31, 262.32, respectively	
23.		Placards available for use by transporters- 262.33	
The Real Property lies, the Parket Street, Square, and the Parket Street, Stre	e manufactured bearing		

X-not in compliance N/A-not applicable " . please note applicable permit requirement

	112	MERILATORY MEDITREMENTS	e218
	/	Device evailable capable of summoning emergency assistance-265.34	
		Adapte apply and proper toil Copyre	
	7	decontamination and selety equipment (fire blankets; resolvators; absorbent; etc.)-265.32	
5.	1	Adequate water supply for fire control equipment-265.32(d)	
	1	Communication and more year, equipment tested and and and intelliged 200 200	
	ŧ/	Facility operated and mintained to minimize possibility of emergency-265-31	
9	MA	Emergency coordinator's name and phone:number; fire departments phone number; and the locations of fire extinguishers and spill concret. ecurioment posted near chone (SDC only) -262.34(d)	,
1n c	000L18	nce X-not in compliance H/A-not applicable *	piese note applicable permit requirement
٥.	Cont	ainer inventory:	nt
		Waste Type Conta.	iner Size
	_{	et counted x 55	gal x 30 gal
		x 55	gal x 30 gal
		x 55	gal x 30 gal
		x 55	gal x 30 gal
		x 55	gal x 30 gal
		x 55	gal x 30 gal
		x 55	gal x 30 gal
			Quantity (pounds, gallons, etc.):
31.	. Tot	al number of containers inspected: (1)	ll
		were container volumes verified?	
	n.	otos taken to verify observations:	D YES D NO Numbers:
		ntainer management area location notes	
			<u>,</u>
35	. No	tes Observations:	, ,
	<u></u> -		
		·	

AIR EMISSIONS-SUBPART AA, BB and CC CHECKLIST

Subpart AA

<u>Background:</u> If a facility (TSD or LQG) manages hazardous wastes greater than 10 ppmw of organics in a process vent used in distillation, fractionation, solvent extraction, thin-film evaporation, air or steam stripping, Subpart AA may apply. Subpart AA would not apply in a bona-fide closed loop scenario at LQGs and TSDs. To comply, the facility would need to determine if the process vent(s) releases greater than 3.0 lbs/hr and 3.1 tons/year of organic air emissions to the atmosphere. If it does not release that much then the facility is in compliance with Subpart AA. If its emissions are greater, then a control device is necessary to bring the facility into compliance. The control device may be a condenser, flare, carbon absorber, etc... that brings the equipment's emission rate below the 3.0 lbs/hr and 3.1 tons/year, or reduces the organic emissions by 95 %.

<u>Objective</u>: The Inspector should try to determine if Subpart AA applies at a particular facility and, if applicable, evaluate the facility's efforts to achieve compliance. Has the facility calculated or measured the organic emissions from all vents and compared that with the emissions limit?

1.(a) Is this facility a Large Quantity Generator Interim Status TSD or Permitted TSD facility a Large Quantity Generator Interim Status TSD or Permitted TSD o
2.(a) Does the facility have any hazardous waste management unit using the following processes: distillation, fractionation, thin-film evaporation, solvent extraction, air stripping and steam stripping? YES NO. If NO, then proceed to the Subpart BB checklist.
If YES, list each process vent that is associated to one of the processes.
(b) Are any of these processes exempt under the closed loop recycle exemption? YESNO
If YES, please explain

(c) Does the hazardous waste contain greater than 10 ppmw organics? YESNO
(d) For those process vents with a yes answer to 2(c) describe the waste(s), unit(s) and processes.
(e) Identify those process vents with a no answer to 2 (c), and describe the information/documentation used to make the determination (collect this information and submit to EPA)
3(a) Is the total hourly emission rate of the affected process vents greater than 3 lb/hr? YESNO
and
(b) Is the facility-wide yearly emission rate greater than 3.1 tons/yr?YESNC
(c) If the answer to 3(a) or 3(b) is no, describe the calculations done by the company to support this determination (Provide copies of the calculations and associated information submit it to EPA).

4.(a) If the answer to 3.(a) or (b) is Yes, did the facility install control devices to reduce the emissions?YESNO (ALL TSDS MUST HAVE THE CONTROL DEVICES IN PLACE).
Explain
(b) Do the calculations/analysis seem reasonable?YESNO
(Are they current? Are facility operating hours (e.g., 8 or 24 hours/day) correct? Have worst case scenarios been considered?)
If NO, explain
5.(a) Are control devices inspected and/or monitored at least once each operating day to ensure proper operation?YESNO
(b) Is there any indication of a problem with the operation of the control devices?YESNO
(c) In case of problems, were corrective measures implemented immediately?YESNO
IF THE FACILITY IS SUBJECT TO THE SUBPART AA RULE AND IS USING A CONTROL DEVICE, COLLECT THE DESIGN DATA AND MONITORING DATA AND FORWARD TO THE EPA OFFICE FOR REVIEW.

Subpart BB

<u>Background:</u> If a facility (TSD or LQG) has equipment (any valve, pump, compressor, pressure relief device, sampling connection system, flange, open-ended valve or line) that contacts hazardous wastes greater than 10 percent organics, that facility is subject to the inspection and monitoring requirements of Subpart BB. If the equipment used to transport hazardous waste with greater than 10 percent organics is used for less than 300 hours per

year, then the facility is excluded from the requirements of 264/265.1052 through 264/265.1060 of this subpart if the equipment is identified as required in 264/265.1064(g)(6).
<u>Objective</u> : The Inspector should try to determine if Subpart BB applies at a particular facility and, if applicable, evaluate the facility's Leak Detection and Repair (LDAR) program. Does it cover all the effected equipment, what is its frequency (monthly, quarterly) and are there records of timely (<15 days) equipment repair when leaks are detected. The importance of compliance with Subpart BB is a function of the amount and volatility of a facility's waste.
6. Does the facility have any valves, flanges, or pumps that contain or contact hazardous wastes greater than 10 percent organics?YESNO
7. Does the facility have any compressors, pressure relief devices, sampling connection systems, flanged pipe open-ended valve or line that contain or contact hazardous wastes greater than 10 percent organics?YESNO
8. Is the facility claiming the < 300 hours exemption YES NO
9. If any of the answers to Questions 6, 7& 8 is yes, does the facility have a list of each piece of equipment that is subject to Subpart BB. (Note: facility should have a list in their operating record, ask for copy).
10. Has the equipment been marked as required by Subpart BB Regulations?YESNO
11. If the answer to questions 6 or 7 is no, does the facility have information/documentation to support its determination (provide a copy of this documentation to EPA).
12. Has the facility implemented a LDAR program?YESNO
Describe the program: LARR program portains to subport ce continues & innual monitoring & follow-up on any detected "lechs"

FOR PUMPS AND VALVES IN LIGHT LIQUID OR GAS/VAPOR SERVICE

LIGHT LIQUID SERVICE : For a hazardous waste to be in light liquid service, the vapor
pressure of one or more of the organic constituents in the material must be greater than 0.3
Kilopascals at 20 degrees C and the total concentration of pure organic constituents having a
vapor pressure greater than 0.3 kilopascals at 20 degrees Centigrade is equal to or greater
than 20 percent by weight.
M/A
13. Is each pump in light liquid monitored monthly to detect leaks?YESNO
14. Is each pump in light liquid service checked by visual inspection each calendar week for
indications of liquids dripping from the pump seal?YESNO
α/A
15. Is each valve in light liquid service or gas/vapor service monitored monthly for leaks?
YES NO
EQUIPMENT IN HEAVY LIQUID SERVICE
N/1
16. Are pumps, valves in heavy liquid service, pressure relief devices in light liquid or heavy
liquid service and flanges and other connectors in light or heavy liquid service monitored for
leaks by visual, olfactory, or any other detection method?YESNO

SUBPART CC OVERVIEW

The Subpart CC regulations apply to Large Quantity Generators and Treatment, Storage and/Disposal Facilities that manage Hazardous Waste of Volatile Organic Concentration of 500ppmw or more on an average annual basis in Tanks and Containers.

For Tank Storage, there are two levels that a facility may use to manage their waste. Tank Level 1 requires a fixed roof tank which uses a maximum organic vapor pressure to comply with Subpart CC. Tank Level 2 designs can be one of five options. These are: (1)an Internal Floating Roof (2)an External Floating Roof (3) a tank with a Fixed Roof vented through a closed vent system to a control device (4) a Pressure Tank (5) a tank located inside an enclosure that is vented through a closed vent system to an enclosed combustion device.

Most of the facilities will comply with Tank Level 1 which is the easiest to follow. The other option that will be seen a lot would be Tank level 2 Option 3. The other options will be

limited to a small number of facilities and should be referred to EPA for inspection. As a result, the emphasis of this checklist has been these two options.

For Container Storage, most of the facilities will store their waste in DOT approved containers. RCRA regulations already cover such storage and as a result, most facilities will be in compliance with the container storage regulations of the Subpart CC regulations.

This checklist does not deal with Surface Impoundments because there are so few active.

RCRA SUBPART C	CC CHECKLIST	FOR AIR EMISSIONS	<u>AT LQGS AND</u>	TSDS
----------------	--------------	-------------------	--------------------	------

1.(a) Is this facility a TSD or a Large Quantity Generator (LQG)? YES NO If the answer is no, STOP, Air Emissions-Subpart CC regulations do not apply. 2.(a) Are there any units at the facility subject to the CC Rule? YES NO (b) If the answer is no, what is the reason? Ref. 40 CFR 265.1080(b) (264.1080(b) exceptions or 265.1083(c) (264.1082(c)) exemptions, or the general exclusions in 265.1(g) (264.1(g)), as applicable.

40 CFR 1080(b)exemptions

1) Unit did not receive HW after 12/6/96
2) Using containers of less than 26 gallons capacity
3) Unit undergoing closure
4) Units used in an on-site RCRA or CERCLA clean-up
5) Mixed Radioactive and hazardous waste
6) Units with CAA, NESHAPS or NSPS controls
7) Tanks with process vents (Subject to Subpart AA)
40 CFR 265.1083(c) exemptions:

- (8) Waste stream less than 500 ppmw average VOC If so, was waste determination done per 265.1084? YES NO (9) All waste placed in unit meets 268.40 (LDR) limits____
- (10) Tank is used for bulk feed to incinerator and requirements of 265.1083(5)(i)-(iii) are met _____

40 CFR 265.1 general exclusions/exemptions:
(11) Hazardous waste recycling unit exemption (12) Satelite accumulation area (13) Totally enclosed treatment facility exemption (14) Elementary neutralization unit(corrosive) (15) Waste water treatment in tanks exemption (16) Emergency or spill management exemption (17) Biological treatment with 95 % efficiency
Except If exemption is based on (8) above, then STOP, subpart CC does not apply.
3. Is the average volatile organic concentration of each waste management unit more than 500 ppmw determined on an average annual basis at point of waste origination?YESNO
If YES, does the facility have a list each unit and the concentration in its operating record YES NO. If NO, indicate if the determination for each unit is in the facility operating record? The Jolennington is best upon queston knowledge. The reconstruction is been upon queston knowledge. a Very consider the containers to be in light liquid rervice to he a Very consider the containers to be in light liquid rervice to he
NOTE: IF FACILITY CLAIMS THAT ITS WASTE IS BELOW 500PPM, THEN THE WASTE DETERMINATION DOCUMENTATION SHOULD BE IN THE OPERATING RECORD. INSPECTOR SHOULD REVIEW THIS DOCUMENTATION AND SUBMITIT TO EPA
FOR EACH UNIT, FOR WHICH A DETERMINATION HAS BEEN MADE THAT

FOR EACH UNIT, FOR WHICH A DETERMINATION HAS BEEN MADE THAT THE HAZARDOUS WASTE CONTAINS LESS THAN 500 PPM OF VOCS, ANSWER THE FOLLOWING QUESTIONS.

4.	How was waste determ	ination done? Using Knowledge or		
	Sampling?	Ref 40 CFR 265.1084 (264.108	33)	
(,) If V novelodge was used	is there any documentation on file?	YES	N(

	(b) Is it adequate?YesNo
	(c) If sampling was used, does the facility have a written sampling plan?YESNO
	(d)(i) If facility used sampling, was the sampling done by an EPA approved method?YESNO. Which Method?
30	(e) Has the waste stream changed since the initial waste determination was done which would cause the character of the waste to change or to exceed the threshold levels for applicability of Subpart CC?YESNO
	(f) If so, was a new waste determination done?YesNo If yes, repeat 4(a)-(e)
	TANKS SUBJECT TO SUBPART CC
	5. (a) Is HW having an average VO concentration of more than 500 ppmw placed in a tank
	with either level 1 or level 2 controls?YESNO (40 CFR 265.1085(b)(1))
	Please note: The fixed roof and its closure devices shall be visually inspected by the owner/operator to check for defects that could result in air pollutant emissions. Defects include, but are not limited to, visible cracks, holes, or gaps in the roof sections or between the the roof and the tank walls; broken, cracked or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. An initial inspection should be done before any waste is stored in the tank and at least once annually thereafter.
	Please note: The fixed roof and its closure devices shall be visually inspected by the owner/operator to check for defects that could result in air pollutant emissions. Defects include, but are not limited to, visible cracks, holes, or gaps in the roof sections or between the the roof and the tank walls; broken, cracked or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. An initial inspection should be done before any waste is stored in
	Please note: The fixed roof and its closure devices shall be visually inspected by the owner/operator to check for defects that could result in air pollutant emissions. Defects include, but are not limited to, visible cracks, holes, or gaps in the roof sections or between the the roof and the tank walls; broken, cracked or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. An initial inspection should be done before any waste is stored in the tank and at least once annually thereafter. 6. Were the tanks inspected for leaks before waste was placed into the tank?
	Please note: The fixed roof and its closure devices shall be visually inspected by the owner/operator to check for defects that could result in air pollutant emissions. Defects include, but are not limited to, visible cracks, holes, or gaps in the roof sections or between the the roof and the tank walls; broken, cracked or otherwise damaged seals or gaskets on closure devices; and broken or missing hatches, access covers, caps, or other closure devices. An initial inspection should be done before any waste is stored in the tank and at least once annually thereafter. 6. Were the tanks inspected for leaks before waste was placed into the tank? No. If YES, when was it done? Yes No. If YES, when was it done? 7. During the tank storage of hazardous waste, was an annual inspection done on the tanks

For tanks with level 1 control:

Tank must meet 3 conditions for level 1 control:

- (1) Waste maximum organic vapor pressure less than cutoff for tank design capacity
- (2) No heating to or above temperatures at which vapor pressure is determined
- (3) No waste stabilization in tank

Vapor pressure is determined by knowledge or by measurement.
Compliance Status:
NOTE: <u>INSPECTOR SHOULD CHECK FOR VAPOR PRESSURE</u> <u>DETERMINATIONS, COLLECT INFORMATION AND BRING IT BACK TO</u> OFFICE.
FOR TANKS WITH LEVEL 2/OPTION 3 CONTROLS OPTION 3- FIXED ROOF TANK VENTING THROUGH A CLOSED VENT
SYSTEM, TO A CONTROL DEVICE THAT WOULD DESTROY OR REDUCE AT LEAST 95% OF VAPORS.
(i) Is the fixed roof forming a continuous barrier over the entire surface area of the liquid in the tank?YESNO
(ii) Are emissions vented to a control device?YESNO
(iii) Are all openings in the roof not venting to the control device fixed with a closure device?YESNO
(iv) If the vapor pressure underneath the fixed roof cover is less than atmospheric pressure when control device is working, and the closure device is closed, are there any visible cracks holes gaps or other open spaces between cover opening and closure device?

- (v) If the vapor pressure below the fixed roof cover is equal to or greater than atmospheric pressure when the control device is working, are the cover and closure device designed to operate at NDE.
- (vi) Are the cover and closure devices closed at all times and the vapor headspace vented to a control device except when O/O is
 - performing inspections
 - performing maintenance or other normal operations
 - accessing the tank
 - removing accumulated sludge and other residues from the bottom of the tank.

NOTE: INSPECTOR SHOULD COLLECT MONITORING DATA FROM THE CONTROL DEVICE AND THE DESIGN DATA AND BRING IT BACK TO THE OFFICE FOR REVIEW. ALL OTHER OPTIONS, REFER TO EPA

CONTAINERS:

LIGHT LIQUID SERVICE: For a hazardous waste to be in light liquid service, the vapor pressure of one or more of the organic constituents in the material must be greater than 0.3 Kilopascals at 20 degrees C and the total concentration of pure organic constituents having a vapor pressure greater than 0.3 kilopascals at 20 degrees Centigrade is equal to or greater than 20 percent by weight.

LEVEL ONE:

- There should be no waste stabilization.
- Containers must be > 0.1 cubic meters (26.4 gal) and < or = to 122 gallons. If the organic waste is not in light liquid service, it can be above 122 gallons.
- OPTION 1-Meet DOT standards.
- **OPTION 2-**Use a cover and closure device on the container and ensure that there are no visible gaps in the interior of the container or holes in the covers.
- **OPTION 3-**Use vapor supressing barrier on or above the hazardous waste in the container.

LEVEL TWO:

- There should be no waste stabilization.
- Containers are larger than 0.46 cubic meters (122 gal) and are in light liquid service.
- **OPTION 1**-The container must meet DOT specifications.
- **OPTION 2-**Operates with no detectable emissions from the container under Method 21.
- **OPTION 3**-Demonstrated to be vapor tight within the last twelve months using Method 27.

LEVEL THREE

- Container must be used for waste stabilization.
- Vent vapors from containers and remove or destroy them in a control device.
- Put container in a "Procedure T Enclosure" and, vent vapors, and destroy them in a control device.

8. What level of control is your facility using to comply with the Subpart CC regulations?

Level One Level Two Level Three
Is the facility in compliance?YESNO Give the basis for your determination.
5. H. paid 55 get brums meet fevel One, Option One: 5. H. raid 40 yd 3 roll-utts meet / cure
Two Option One; I I min the Z-yd Cooper west Level Two Option Two.
55 gel drums in remitted storage area appear DOT drums, 40-yd " roll- If boyes appear to DOT intainer.
The Z-ydi boxes were determined to meet "no detectable emissions" on basis of an April '98
monitoring of a 2-yd container like the over used in the dant. J. H. said this was the
basis for raising all the 2-42 containers would meet "no detectable amissions", J. Have
they also did monitoring of all boxes in use during June July '99. I. H said they useda
PID (instrument calibrated to indeutylene)
RF= actualcuse.

* NOTE: Most facilities will be in compliance if they are not conducting waste stabilization and if they store their waste in DOT approved 55 gallon drums.

INSTRUMENT CALIBRATION RECORD

David A. Whiting
(Calibratorlls Name)
(Location of Calibration)
(Date, Time)
INSTRUMENT MANUFACTURER Fox horo
INSTRUMENT S/N
INSTRUMENT MODEL# OVA-108
OVA RESPONSE FACTOR 1 jealibrate Ito methore in air
INSTRUMENT ANNUAL CERTIFICATION

CALIBRATION GAS EXPIRATION DATE _____

Calibration Log								
Calibration Gas (Type of Gas Used)	Calibration Gas Level	Measured Con- centration	Flow Rate	Accuracy Range [(+/-) 10%]				
methane in air	9,999 mm	1 1/0	20/m	0				
	**		-	Ш				
, ²¹								
	e.							
	÷ .							

Container VOC LEAKING VALVE MONITORING RESULTS

Me Donne Douglas Corp. Treat 1

(Facility Name)

St. Louis, M()

(State, City)

4/25/4)

(Date)

INSTRUMENT: Manufacturer Fox horo; S/N ; MODEL# OVA]

Name of Process Monitored: 2 / 0 3 (onto	Unit & Area ainers (boxes)	Monitoring Inspector: David A. Whiting			Confirmation Monitoring Individual:	
Background Level Measured	Valve Tag Number	Type of Service	Leak Definition	Maximum Leak Rate	Leak Confirmed (Yes/No)	Comments/ Observations
Zppm	Bldg. #51 40-401 roll-off outside hity 51	Light Liquid container	500ppm	10 ppm at top 5.W. corner	No	
Zppm	hox # 017	И	LI	0	69	
dopm	hox # 081	и	500 pm	looppm at ctr. fint.		
3rd cpm	hox #056	и	61	300-400 ppm at frnt. corners	u	100 ppm on ++ sile
5 ppn	hox #029	u	и	ctr. Fint	-4	75 gpm fint. Ift. side middle ; Zoppm rt hecke
Sppm	hox # 050	LP	ч	corfort of frate	h Mac	50 pgn at 18t. frat.
5 ppm	DOV#149		и	50 ppm at etr. frat.	и	
5 ppm	box#047	ч	i1	250 ppm at	ц	40 ppm Ht. Frut corner
3 ppm	Bldg # 27 40-yd8 roll-off in hady 27	и	и	0	и	
	hox # 076	и	41	looppm at ctr.	и	touppen at rt. dlfts fromt
4 ppm 2ppm	box#054	и	11	back	Eq	
3 gpm	In bldy 29a box # OSS	и	11	3,000 ppm at rt. side middle	Yes	1,000 ppn atctr. Front
3-5 pm	permitted Storage area	hozho-tirguil containere	9.00	0	No	20 ppm lft-frut-cor qu
COTAL						

Confirmation Mo	nitoring: Nove	•		
INSTRUMENT:	Manufacturer	; S/N _	; MODEL#	

SQG Z LQG Z

Page___of

EXIT BRIEFING WORKSHEET

1. Initial procedures:

Activity #:

- Deviewed all data collection worksheets, checklists, field notes, and collected documents to ensure that all necessary information has been collected and documented. This review included the following:
- Documentation of the location of the violation, the type and amount of waste involved, the duration or time frame of the violation, the specific dates when the violation first started occurring, and the number of times or frequency that the same violation was found at the facility.
- Documentation regarding illegal waste management units, including: information about the units location (diagram/picture), its dimensions, its conditions, the construction material, the gradient of the base (for spills), and all other relevant information.
- Documentation regarding illegal disposal situations, including: information about each occurrence, eg. where the waste was sent or disposed of, how it was shipped, who shipped it, when it was shipped or disposed of, how much was shipped or disposed of, how the waste was managed at the disposal site (land disposed, burned, etc.).
 - ☐ Identified/verified violations from previous inspection were corrected (if applicable)

	(,							
Note	additional	information	needed	and/or	questions	for	facility	representative(s):	
_									
									_
	X Proposed	d Nobice of t							

Prepared Notice of Violation (NOV) form, if applicable

Prepared Document Receipt form

Pollution Prevention Checklist completed

Multi-Media screening completed, media(s): R7 MW

2. Exit	Briefing:
---------	-----------

2 Addressed all unresolved inspection related issues

D Provided facility with Document Receipt

Provided facility with Page 3 of CBI form (only if facility makes a CBI claim)

- Explained that the findings and observations resulting from the inspection were based on your current knowledge of RCRA and that the final findings may differ
- Explained that the compliance officer will make the final compliance decisions regarding the findings and observations of the inspection and that all compliance related questions should be directed toward them
- Explained that any recommendations provided during the inspection are for informational purposes only and DO NOT require specific actions by the facility
- D Summarized the findings and observations for the facility representatives

Notes		
EXBW-1 of 2		ty.

Activity #: Facility Status: SQC FlQC Fl.s 3. Notice of Violation prepared and issued? TES FNO (IS All violations were clearly identified and explained, inc. circumstances, location, and the applicable regulations Explained the importance of a timely and adequate response 4. Specific information requested from facility? (Note: Request all information in writing and copy) List information to be submitted to EPA:	f yes complete below) luding: the
All violations were clearly identified and explained, inc. circumstances, location, and the applicable regulations Explained the importance of a timely and adequate response Specific information requested from facility? (Note: Request all information in writing and copy)	luding: the
circumstances, location, and the applicable regulations Explained the importance of a timely and adequate response 4. Specific information requested from facility? (Note: Request all information in writing and copy)	•
4. Specific information requested from facility? (Note: Request all information in writing and copy)	
(Note: Request all information in writing and copy)	D No.
List information to be submitted to EPA:	E NO
5. Actions facility representatives said they would take as a res (Note who made these statements) Thanks said they would probably remove box #082 fre	ок 🗆
	en server and regain
6. Facility appears to have awareness of RCRA regulations and/or	has its own environment
staff? ZYES DNO	
7. Facility appears to have little to no knowledge of RCRA?	TES DNO
8. Facility has copy of applicable regulations?	TES NO
9. Note attitude and demeanor of facility representative(s) if ap	oplicable: N/A
·	

DOCUMENTATION

HOW are the facts known? HOW long did it happen? WHO said what? WHEN did it happen? and WHAT ?ROOF WAS OBTAINED?